

IN THE CLAIMS.

Please cancel claim 2, and amend claims 1, 12 and 17 as follows:

1. (CURRENTLY AMENDED) An improved distributed Bragg reflector comprising:
a sampled grating, including a plurality of sampled grating portions having a first grating phase separated from each other by portions with no grating; and
a first grating burst portion, at a beginning of a first one of the sampled grating portions, having a second grating phase, the second grating phase is different from the first grating phase with a phase change region between the first one of the sampled grating portions and the first grating burst portion, wherein the first grating burst portion is substantially opposite in phase from the first one of the sampled grating portions.

2. (CANCELLED)

3. (PREVIOUSLY PRESENTED) The reflector of claim 1, wherein the first sampled grating portion and the first grating burst portion are spaced apart and configured such that maximum values for a coupling constant (κ) are substantially uniform across a selected tuning range.

4-10. (CANCELLED)

11. (PREVIOUSLY PRESENTED) The reflector of claim 1, wherein the portions with no grating occupy more than 70% of the reflector.

12. (CURRENTLY AMENDED) The reflector of claim 1, wherein the first grating burst portion is spaced apart from the first one of the sampled grating portions by a spacing portion with no grating.

13-16. (CANCELLED)

17. (CURRENTLY AMENDED) A distributed Bragg reflector comprising:
a sampled grating, including a plurality of sampled grating portions separated from each other
by portions with no grating;

wherein each of the sampled grating portions each have a first grating phase and a second
grating phase contains a phase change region, such that a first grating phase before the phase change
region is substantially opposite a second grating phase after the phase change region.

18. (PREVIOUSLY PRESENTED) The reflector of claim 17, wherein the portions with no
grating occupy more than 70% of the reflector.

19. (PREVIOUSLY PRESENTED) The reflector of claim 17, wherein the sampled grating
portions reverse their grating phase at a beginning and an end of each sampled grating portion.

20-29. (CANCELLED)